

# Product Group 1

## Dynamic Microphones



### Studio Microphone MD 21

The dynamic studio microphone MD 21 is one of the most successful produced by Sennheiser. In the last 15 years over 270,000 of these models have been manufactured, with a significant proportion of these being used in radio and television studios throughout the world.

This microphone has become an international standard for quality and reliability in dynamic microphones. How has this come about? The German Broadcasting networks were in need of a reliable high quality microphone for general purpose use. The MD 21 was developed to meet this need. The rugged die-cast casing will withstand heavy treatment but the smooth frequency response meets the stringent requirements of broadcasting authorities. In particular, the 5 dB lift in response between 2,000 and 15,000 cycles, gives the added presence required by the networks. Being an omnidirectional pressure-operated microphone the MD 21 is relatively insensitive to wind noise and is most suitable for exterior use. For outdoor environments a windshield is available as an accessory, Type MZW 22.

#### MD 21 Types

**MD 21 N** The standard low impedance type, wired as diagram N (pages 12 and 13). Balanced output.

**MD 21 HL** Dual impedance type, wired as diagram HL (pages 12 and 13).

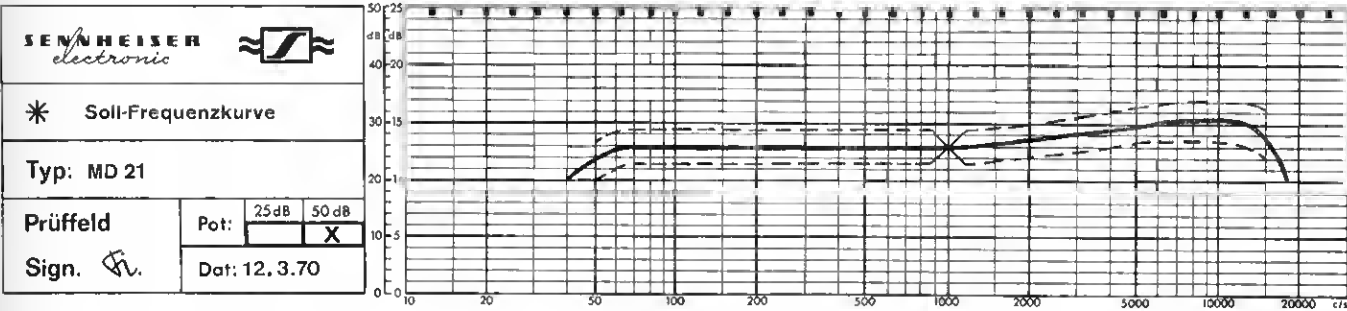
**MD 21-2** Low impedance, balanced output, fitted with large Tuchel connector, type T 3079/2.



Technical Data



Rudi Carrell during one of his TV shows.



Nominal frequency response curve (with tolerance limits) MD 21

	MD 21 N	MD 21-2	MD 21 HL
Acoustical mode of operation	Pressure sensitive transducer	Pressure sensitive transducer	Pressure sensitive transducer
Frequency range	40 – 18,000 Hz	40 – 18,000 Hz	40 – 18,000 Hz
Tolerance limits	± 3 dB of reference curve from 50 Hz to 15,000 Hz	± 3 dB of reference curve from 50 Hz to 15,000 Hz	± 3 dB of reference curve from 50 Hz to 15,000 Hz
Sensitivity at 1,000 Hz	0.2 mV/μbar ± 3 dB	0.2 mV/μbar ± 3 dB	2.5 mV/μbar, 2.0 mV/μbar ± 3 dB
Output level ref. 1 mW/10 dynes/cm <sup>2</sup>	– 53 dbm	– 53 dbm	– 53 dbm and – 54 dbm
EIA rating	– 145.8 db	– 145.8 db	– 145.8 db and – 150 db
Impedance	200 ohm	200 ohm	30,000 ohm 200 ohm
Directional characteristics	omnidirectional	omnidirectional	omnidirectional
Connector	T 3260	T 3079/2	T 3260
Pin connections	1 + 3: signal 2 & case: ground	1 + 2: signal 3 & case: ground	H: 1 + 2: case: ground L: 2 + 3: case: ground
Cable connectors	T 3261	T 3080/2	T 3261
Stray magnetic field interference	≤ 100 μV/50 mG	≤ 100 μV/50 mG	≤ 100 μV/50 mG
Dimensions	120 x 46 x 46 mm	120 x 46 x 46 mm	120 x 46 x 46 mm
Weight	10 oz.	10 oz.	10 oz.

We reserve the right to alter the specifications especially with regards to technical improvements.